

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in this application.

Listing of Claims:

Claims 1-18 (Canceled).

Claim 19 (Previously Presented): A packet processor for processing packets of data received via a network to reproduce the data, comprising:

a receiving buffer for storing received packets;

a reproducing means for reproducing data of the packets based on a reproduction clock;

and

a control means for performing control so as to reproduce data without breaks,

wherein the control means controls the packets stored in the receiving buffer by their number without using temporal information received with the packets, holds a reference value for the number of received packets, which is determined beforehand, and causes the reproducing means to start data reproduction when the number of packets exceeds the reference value; monitors a state of the receiving buffer and collects, when the packets in the buffer are used up, packets up to a level corresponding to the reference value before causing the reproducing means to restart data reproduction; and monitors the number of packets in the receiving buffer at intervals of a predetermined time period, and when a result shows increase or decrease in the number of packets with time, the control means, based on the result, modifies a receiving buffer size and the reference value for the number of received packets at which reproduction of data is started.

Claim 20 (Previously Presented): A packet processor for processing packets of data received via a network to reproduce the data, comprising:

a receiving buffer for storing received packets;

a reproducing means for reproducing data of the packets based on a reproduction clock;

and

a control means for performing control so as to reproduce data without breaks,

wherein the control means controls the packets stored in the receiving buffer by their number without using temporal information received with the packets, holds a reference value for the number of received packets, which is determined beforehand, and causes the reproducing means to start data reproduction when the number of packets exceeds the reference value; monitors a state of the receiving buffer and discards, when the packets in the buffer exceed a predetermined buffer size, a fixed number of packets from the buffer; and monitors the number of packets in the receiving buffer at intervals of a predetermined time period, and when a result shows increase or decrease in the number of packets with time, the control means, based on the result, modifies the receiving buffer size and the reference value for the number of received packets at which reproduction of data is started.

Claim 21 (Previously Presented): A packet processor for processing packets of data received via a network to reproduce the data, comprising:

a receiving buffer for storing received packets;

a reproducing means for reproducing data of the packets based on a reproduction clock;

and

a control means for performing control so as to reproduce data without breaks,

wherein the control means controls the packets stored in the receiving buffer by their number without using temporal information received with the packets, holds a reference value for the number of received packets, which is determined beforehand, and causes the reproducing means to start data reproduction when the number of packets exceeds the reference value; monitors a state of the receiving buffer and modifies, when the packets in the buffer are used up, the reference value for the number of received packets at which reproduction of data is started, upon a next reproduction of data; and monitors the number of packets in the receiving buffer at intervals of a predetermined time period, and when a result shows increase or decrease in the

number of packets with time, the control means, based on the result, modifies a receiving buffer size and the reference value for the number of received packets at which reproduction of data is started.

Claim 22 (Previously Presented): A packet processor for processing packets of data received via a network to reproduce the data, comprising:

a receiving buffer for storing received packets;

a reproducing means for reproducing data of the packets based on a reproduction clock;

and

a control means for performing control so as to reproduce data without breaks,

wherein the control means controls the packets stored in the receiving buffer by their number without using temporal information received with the packets, holds a reference value for the number of received packets, which is determined beforehand, and causes the reproducing means to start data reproduction when the number of packets exceeds the reference value; monitors a state of the receiving buffer and modifies, when the packets in the buffer exceed a predetermined buffer size, the size of the receiving buffer; and monitors the number of packets in the receiving buffer at intervals of a predetermined time period, and when a result shows increase or decrease in the number of packets with time, the control means, based on the result, modifies the receiving buffer size and the reference value for the number of received packets at which reproduction of data is started.

Claim 23 and 24 (Canceled).

Claim 25 (Previously Presented): A packet processor for processing packets of data received via a network to reproduce the data, comprising:

a receiving buffer for storing received packets;

a reproducing means for reproducing data of the packets based on a reproduction clock;

and

a control means for performing control so as to reproduce data without breaks,

wherein the control means controls the packets stored in the receiving buffer by their number without using temporal information received with the packets, holds a reference value

for the number of received packets, which is determined beforehand, and causes the reproducing means to start data reproduction when the number of packets exceeds the reference value; monitors a state of the receiving buffer and modifies, when the packets in the buffer are used up, the reference value for the number of received packets at which reproduction of data is started, upon a next reproduction of data; and monitors the number of packets in the receiving buffer at intervals of a predetermined time period, and when a result shows increase or decrease in the number of packets with time, the control means, based on the result, modifies a clock for data reproduction.

Claim 26 (Previously Presented): A packet processor for processing packets of data received via a network to reproduce the data, comprising:

a receiving buffer for storing received packets;

a reproducing means for reproducing data of the packets based on a reproduction clock;

and

a control means for performing control so as to reproduce data without breaks,

wherein the control means controls the packets stored in the receiving buffer by their number without using temporal information received with the packets, holds a reference value for the number of received packets, which is determined beforehand, and causes the reproducing means to start data reproduction when the number of packets exceeds the reference value; monitors a state of the receiving buffer and modifies, when the packets in the buffer exceed a predetermined buffer size, the size of the receiving buffer; and monitors the number of packets in the receiving buffer at intervals of a predetermined time period, and when a result shows increase or decrease in the number of packets with time, the control means, based on the result, and not based on the temporal information received with the packets, modifies a clock for data reproduction.

Claim 27 (Previously Presented): A packet processor for processing packets of data received via a network to reproduce the data, comprising:

a receiving buffer for storing received packets;

a reproducing means for reproducing data of the packets based on a reproduction clock;

and

a control means for performing control so as to reproduce data without breaks,
wherein the control means controls the packets stored in the receiving buffer by their number without using temporal information received with the packets, holds a reference value for the number of received packets, which is determined beforehand, and causes the reproducing means to start data reproduction when the number of packets exceeds the reference value; monitors a state of the receiving buffer and modifies, when the packets in the buffer are used up, the reference value for the number of received packets at which reproduction of data is started, upon a next reproduction of data; and records modifications of the reference value for the number of received packets or a receiving buffer size, continuously from a start of a communication, and if recorded modifications of one type successively occur, the control means, based on the recorded modifications, modifies the receiving buffer size and the reference value for the number of received packets at which reproduction of data is started.

Claim 28 (Previously Presented): A packet processor for processing packets of data received via a network to reproduce the data, comprising:

a receiving buffer for storing received packets;
a reproducing means for reproducing data of the packets based on a reproduction clock;
and

a control means for performing control so as to reproduce data without breaks,
wherein the control means controls the packets stored in the receiving buffer by their number without using temporal information received with the packets, holds a reference value for the number of received packets, which is determined beforehand, and causes the reproducing means to start data reproduction when the number of packets exceeds the reference number; monitors a state of the receiving buffer and modifies, when the packets in the buffer exceed exceeds a predetermined buffer size, the size of the receiving buffer; and records modifications of the reference value for the number of received packets or a receiving buffer size, continuously from a start of a communication, and if recorded modifications of one type successively occur, the control means, based on the recorded modifications, modifies the receiving buffer size and the reference value for the number of received packets at which reproduction of data is started.

Claim 29 (Previously Presented): A packet processor for processing packets of data received via a network to reproduce the data, comprising:

a receiving buffer for storing received packets;

a reproducing means for reproducing data of the packets based on a reproduction clock;

and

a control means for performing control so as to reproduce data without breaks,

wherein the control means controls the packets stored in the receiving buffer by their number without using temporal information received with the packets, holds a reference value for the number of received packets, which is determined beforehand, and causes the reproducing means to start data reproduction when the number of packets exceeds the reference value; monitors a state of the receiving buffer and modifies, when the packets in the buffer are used up, the reference value for the number of received packets at which reproduction of data is started, upon a next reproduction of data; and records modifications of the reference value for the number of received packets or a receiving buffer size, continuously from a start of a communication, and if recorded modifications of one type successively occur, the control means, based on the recorded modifications, modifies a clock for data reproduction.

Claim 30 (Previously Presented): A packet processor for processing packets of data received via a network to reproduce the data, comprising:

a receiving buffer for storing received packets;

a reproducing means for reproducing data of the packets based on a reproduction clock;

and

a control means for performing control so as to reproduce data without breaks,

wherein the control means controls the packets stored in the receiving buffer by their number without using temporal information received with the packets, holds a reference value for the number of received packets, which is determined beforehand, and causes the reproducing means to start data reproduction when the number of packets exceeds the reference value; monitors a state of the receiving buffer and modifies, when the packets in the buffer exceed a predetermined buffer size, the size of the receiving buffer; and records modifications of the reference value for the number of received packets or the receiving buffer size, continuously

from a start of a communication, and if recorded modifications of one type successively occur, the control means, based on the recorded modifications, modifies a clock for data reproduction.

Claim 31 (Previously Presented): A recording medium holding a packet processing program for use in a packet processor for processing packets of data received via a network to reproduce the data, wherein the packet processor comprises a receiving buffer for storing received packets; a reproducing means for reproducing data of the packets based on a reproduction clock; and a control means for performing control so as to reproduce data without breaks, and

wherein the packet processing program is characterized in that the control means is adapted to control the packets stored in the receiving buffer by their number without using temporal information received with the packets, hold a reference value for the number of received packets, which is determined beforehand, and cause the reproducing means to start data reproduction when the number of packets exceeds the reference value; the control means is adapted to monitor a state of the receiving buffer and collect, when the packets in the buffer are used up, packets up to a level corresponding to the reference value before causing the reproducing means to restart data reproduction; and the control means is adapted to monitor the number of packets in the receiving buffer at intervals of a predetermined time period and when a result shows increase or decrease in the number of packets with time, the control means is operated to modify, based on the result, a receiving buffer size and the reference value for the number of received packets at which reproduction of data is started.

Claim 32 (Previously Presented): A recording medium holding a packet processing program for use in a packet processor for processing packets of data received via a network to reproduce the data, wherein the packet processor comprises a receiving buffer for storing received packets; a reproducing means for reproducing data of the packets based on a reproduction clock; and a control means for performing control so as to reproduce data without breaks, and

wherein the packet processing program is characterized in that the control means is adapted to control the packets stored in the receiving buffer by their number without using temporal information received with the packets, hold a reference value for the number of

received packets, which is determined beforehand, and cause the reproducing means to start data reproduction when the number of packets exceeds the reference value; the control means is adapted to monitor a state of the receiving buffer and discard, when the packets in the buffer exceed a predetermined buffer size, a fixed number of packets from the buffer; and the control means is adapted to monitor the number of packets in the receiving buffer at intervals of a predetermined time period and when a result shows increase or decrease in the number of packets with time, the control means is operated to modify, based on the result, the receiving buffer size and the reference value for the number of received packets at which reproduction of data is started.

Claim 33 (Previously Presented): A recording medium holding a packet processing program for use in a packet processor for processing packets of data received via a network to reproduce the data, wherein the packet processor comprises a receiving buffer for storing received packets; a reproducing means for reproducing data of the packets based on a reproduction clock; and a control means for performing control so as to reproduce data without breaks, and

wherein the packet processing program is characterized in that the control means is adapted to control the packets stored in the receiving buffer by their number without using temporal information received with the packets, hold a reference value for the number of received packets, which is determined beforehand, and cause the reproducing means to start data reproduction when the number of packets exceeds the reference value; the control means is adapted to monitor a state of the receiving buffer and modify, when the packets in the buffer are used up, the reference value for the number of received packets at which reproduction of data is started, upon a next reproduction of data; and the control means is adapted to monitor the number of packets in the receiving buffer at intervals of a predetermined time period and when a result shows increase or decrease in the number of packets with time, the control means is operated to modify, based on the result, a receiving buffer size and the reference value for the number of received packets at which reproduction of data is started.

Claim 34 (Previously Presented): A recording medium holding a packet processing program for use in a packet processor for processing packets of data received via a network to

reproduce the data, wherein the packet processor comprises a receiving buffer for storing received packets; a reproducing means for reproducing data of the packets based on a reproduction clock; and a control means for performing control so as to reproduce data without breaks, and

wherein the packet processing program is characterized in that the control means is adapted to control the packets stored in the receiving buffer by their number without using temporal information received with the packets, hold a reference value for the number of received packets, which is determined beforehand, and cause the reproducing means to start data reproduction when the number of packets exceeds the reference value; the control means is adapted to monitor a state of the receiving buffer and modify, when the packets in the buffer exceed a predetermined buffer size, the size of the receiving buffer; and the control means is adapted to monitor the number of packets in the receiving buffer at intervals of a predetermined time period and when a result shows increase or decrease in the number of packets with time, the control means is operated to modify, based on the result, the receiving buffer size and the reference value for the number of received packets at which reproduction of data is started.

Claim 35 and 36 (Canceled).

Claim 37 (Previously Presented): A recording medium holding a packet processing program for use in a packet processor for processing packets of data received via a network to reproduce the data, wherein the packet processor comprises a receiving buffer for storing received packets; a reproducing means for reproducing data of the packets based on a reproduction clock; and a control means for performing control so as to reproduce data without breaks, and

wherein the packet processing program is characterized in that the control means is adapted to control the packets stored in the receiving buffer by their number without using temporal information received with the packets, hold a reference value for the number of received packets, which is determined beforehand, and cause the reproducing means to start data reproduction when the number of packets exceeds the reference value; the control means is adapted to monitor a state of the receiving buffer and modify, when the packets in the buffer are used up, the reference value for the number of received packets at which reproduction of data is

started, upon a next reproduction of data; and the control means is adapted to monitor the number of packets in the receiving buffer at intervals of a predetermined time period and when a result shows increase or decrease in the number of packets with time, the control means is operated to modify, based on the result, a clock for data reproduction.

Claim 38 (Previously Presented): A recording medium holding a packet processing program for use in a packet processor for processing packets of data received via a network to reproduce the data, wherein the packet processor comprises a receiving buffer for storing received packets; a reproducing means for reproducing data of the packets based on a reproduction clock; and a control means for performing control so as to reproduce data without breaks, and

wherein the packet processing program is characterized in that the control means is adapted to control the packets stored in the receiving buffer by their number without using temporal information received with the packets, hold a reference value for the number of received packets, which is determined beforehand, and cause the reproducing means to start data reproduction when the number of packets exceeds the reference value; the control means is adapted to monitor a state of the receiving buffer and modify, when the packets in the buffer exceed a predetermined buffer size, the size of the receiving buffer; and the control means is adapted to monitor the number of packets in the receiving buffer at intervals of a predetermined time period and when a result shows increase or decrease in the number of packets with time, the control means is operated to modify, based on the result, and not based on the temporal information received with the packets, a clock for data reproduction.

Claim 39 (Previously Presented): A recording medium holding a packet processing program for use in a packet processor for processing packets of data received via a network to reproduce the data, wherein the packet processor comprises a receiving buffer for storing received packets; a reproducing means for reproducing data of the packets based on a reproduction clock; and a control means for performing control so as to reproduce data without breaks, and

wherein the packet processing program is characterized in that the control means is adapted to control the packets stored in the receiving buffer by their number without using

temporal information received with the packets, hold a reference value for the number of received packets, which is determined beforehand, and cause the reproducing means to start data reproduction when the number of packets exceeds the reference value; the control means is adapted to monitor a state of the receiving buffer and modify, when the packets in the buffer are used up, the reference value for the number of received packets at which reproduction of data is started, upon a next reproduction of data; and the control means is adapted to record modifications of the reference value for the number of received packets or a receiving buffer size, continuously from a start of a communication, and if recorded modifications of one type successively occur, the control means is operated to modify, based on the recorded modifications, the receiving buffer size and the reference value for the number of received packets at which reproduction of data is started.

Claim 40 (Previously Presented): A recording medium holding a packet processing program for use in a packet processor for processing packets of data received via a network to reproduce the data, wherein the packet processor comprises a receiving buffer for storing received packets; a reproducing means for reproducing data of the packets based on a reproduction clock; and a control means for performing control so as to reproduce data without breaks, and

wherein the packet processing program is characterized in that the control means is adapted to control the packets stored in the receiving buffer by their number without using temporal information received with the packets, hold a reference value for the number of received packets, which is determined beforehand, and cause the reproducing means to start data reproduction when the number of packets exceeds the reference value; the control means is adapted to monitor a state of the receiving buffer and modify, when the packets in the buffer exceed a predetermined buffer size, the size of the receiving buffer; and the control means is adapted to record modifications of the reference value for the number of received packets or the receiving buffer size, continuously from a start of a communication, and if recorded modifications of one type successively occur, the control means is operated to modify, based on the recorded modifications, the receiving buffer size and the reference value for the number of received packets at which reproduction of data is started.

Claim 41 (Previously Presented): A recording medium holding a packet processing program for use in a packet processor for processing packets of data received via a network to reproduce the data, wherein the packet processor comprises a receiving buffer for storing received packets; a reproducing means for reproducing data of the packets based on a reproduction clock; and a control means for performing control so as to reproduce data without breaks, and

wherein the packet processing program is characterized in that the control means is adapted to control the packets stored in the receiving buffer by their number without using temporal information received with the packets, hold a reference value for the number of received packets, which is determined beforehand, and cause the reproducing means to start data reproduction when the number of packets exceeds the reference value; the control means is adapted to monitor a state of the receiving buffer and modify, when the packets in the buffer are used up, the reference value for the number of received packets at which reproduction of data is started, upon a next reproduction of data; and the control means is adapted to record modifications of the reference value for the number of received packets or a receiving buffer size, continuously from a start of a communication, and if recorded modifications of one type successively occur, the control means is adapted to modify, based on the recorded modifications, a clock for data reproduction.

Claim 42 (Previously Presented): A recording medium holding a packet processing program for use in a packet processor for processing packets of data received via a network to reproduce the data, wherein the packet processor comprises a receiving buffer for storing received packets; a reproducing means for reproducing data of the packets based on a reproduction clock; and a control means for performing control so as to reproduce data without breaks, and

wherein the packet processing program is characterized in that the control means is adapted to control the packets stored in the receiving buffer by their number without using temporal information received with the packets, hold a reference value for the number of received packets, which is determined beforehand, and cause the reproducing means to start data reproduction when the number of packets exceeds the reference value; the control means is adapted to monitor a state of the receiving buffer and modify, when the packets in the buffer

exceed a predetermined buffer size, the size of the receiving buffer; and the control means is adapted to record modifications of the reference value for the number of received packets or the receiving buffer size, continuously from a start of a communication, and if recorded modifications of one type successively occur, the control means is adapted to modify, based on the recorded modifications, a clock for data reproduction.

Claim 43 (Currently Amended): A packet processor for processing packets of data received via a network, comprising:
a receiving buffer for storing received packets; and
a controller that controls packets stored in the receiving buffer by their number without using temporal information received with the packets, holds a reference value for the number of received packets, and initiates data reproduction when the number of packets in the receiving buffer exceeds the reference value; monitors a state of the receiving buffer and collects, when the packets in the receiving buffer are ~~are~~ used up, packets up to a level corresponding to the reference value before initiating a restart of data reproduction; and monitors the number of packets in the receiving buffer at specified time intervals, and when a result of the packet number monitoring shows non-jitter-induced increases or decreases over time in the number of packets in the receiving buffer, modifies both a receiving buffer size and the reference value for the number of received packets at which reproduction of data is initiated.

Claim 44 (Previously Presented): A packet processing program for processing packets of data received via a network, the packet processing program being tangibly embodied on a recording medium and which, when executed, performs a method comprising:
storing received packets;
controlling packets stored in the receiving buffer by their number without using temporal information received with the packets, holding a reference value for the number of received packets, and initiating data reproduction when the number of packets in the receiving buffer exceeds the reference value;
monitoring a state of the receiving buffer and collecting, when the packets in the receiving buffer are used up, packets up to a level corresponding to the reference value before initiating a restart of data reproduction; and

NAKABAYASHI, J.

Serial No. 10/031,200

Response to Office Action dated April 23, 2008

monitoring the number of packets in the receiving buffer at specified time intervals, and when a result of the packet number monitoring shows non-jitter-induced increases or decreases over time in the number of packets in the receiving buffer, modifying both a receiving buffer size and the reference value for the number of received packets at which reproduction of data is initiated.